

IN THE SPECIFICATION:

Page 1, line 1, please insert:

RELATED APPLICATION INFORMATION

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This application is a continuation of U.S. Serial No. 09/490,965, filed January 24, 2000, which is a continuation of U.S. Serial No. 08/271,882, filed July 7, 1994, now issued as U.S. Patent No. 6,017,696, which is a continuation-in-part of U.S. Serial No. 08/146,504, filed November 1, 1993, now issued as U.S. Patent No. 5,605,662.

IN THE CLAIMS:

Please cancel claims 1-94.

Please add the following new claims 95-213:

95. A method for electronic synthesis of a plurality of complex structures on a substrate,

comprising the steps of:

providing a substrate having a plurality of controllable electrodes supported by the substrate,

providing first structures coupled to the electrodes, the structures having a blocked functional group,

providing a solution in contact with the array of electrodes,

applying a potential to selected electrodes where synthesis is to occur in order to cause deblocking of the first structure,

reacting a second structure with the deblocked first structure, and